

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
27 January 2005 (27.01.2005)

PCT

(10) International Publication Number
WO 2005/006940 A3

(51) International Patent Classification⁷: C12Q 1/68, C12P 19/34

(21) International Application Number: PCT/US2004/019618

(22) International Filing Date: 18 June 2004 (18.06.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data: 60/479,896 19 June 2003 (19.06.2003) US

(71) Applicant (for all designated States except US): UNIVERSITY OF MEDICINE AND DENTISTRY OF NEW JERSEY [US/US]; 335 George Street, Suite 3200, New Brunswick, NJ 08901 (US).

(72) Inventor; and

(75) Inventor/Applicant (for US only): GOYDOS, James, S. [US/US]; 1 Fernwood Court, East Brunswick, NJ 08816 (US).

(74) Agent: MAURER, Barbara, V.; University of Medicine and Dentistry of New Jersey, Office of Patents and Licensing, 335 George Street, Suite 3200, New Brunswick, NJ 08901 (US).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

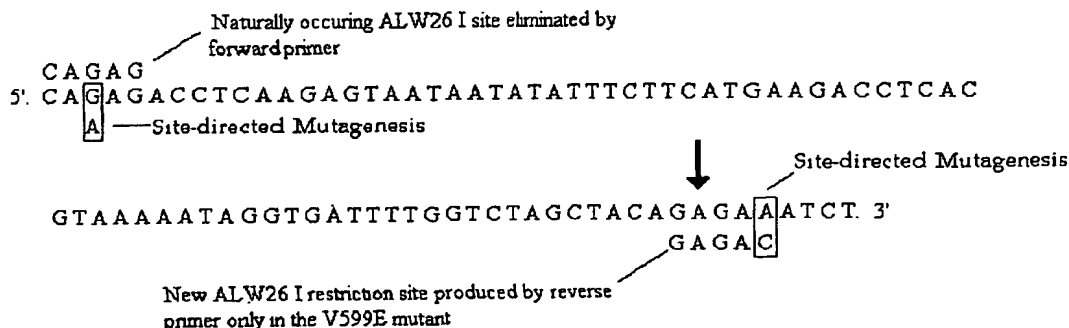
Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

(88) Date of publication of the international search report: 30 June 2005

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: DETECTION OF MUTATIONS IN NUCLEIC ACID SEQUENCES



(57) Abstract: The present invention is directed to a novel method for detecting a mutation in a target nucleic acid sequence. Such methods may be used to detect a mutation in a target nucleic acid sequence derived from a biological sample. Exemplary biological samples include, but are not limited to, samples derived from patients such as bodily fluids, tissues or cells. The methods of the invention are useful for detecting a mutation in a target nucleic acid sequence in such patient samples and thus, are of utility for diagnosing a disease in a patient and/or predicting a predisposition of a patient for a disease.

WO 2005/006940 A3